

**Minutes**  
**National Council of Space Grant Directors**  
**2007 Spring Meeting**  
**February 27 – March 3, 2007**  
**The Watergate**  
**Washington, D.C.**

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***Wednesday, February 27, 2007 (Ballroom)***

**WELCOME**

1:07 Welcome by Richard Berendzen. (D.C.) Thanks to Megan and Eric for the excellent planning for this meeting. We are using the Watergate this year because the Marriott is so booked. It is the most used Marriott location in the world. Please let the folks at the Watergate know what you think.

**ANNOUNCEMENTS, INTRODUCTIONS, AND AWARDS**

1:10 Welcome by Bill Garrard (MN) and Chair, National Council of Space Grant Directors. We are going to start out with some awards. First award goes to John Gregory (AL) for being chair for 2004 through 2006.

1:12 John Gregory (AL) presented an award to Frank Owens. Frank has been known by Space Grant folks for 15 years or so. John reads the Executive Council Resolution:

*Resolution of the National Council of Space Grant Directors*

*Whereas, Frank Owens has dedicated his career to the education of America's youth, particularly in the fields of science, engineering, technology and mathematics, having served:*

- *As a teacher in Roanoke County, Virginia school system*
- *As a member of College of Education Faculty at Virginia Tech*
- *As an Education Programs Officer and Employee Development Specialist at the NASA Langley Research Center; and*
- *In several capacities at NASA Headquarters, culminating as the Director of the Education Division (1992-2002).*

*Whereas, Frank has shown vigor, vision, determination and leadership in his stewardship of NASA's education programs, several of which achieved national prominence during his directorship; and*

*Whereas, Frank has consistently used his considerable management skills to re-align the NASA Education Program to support the Agency's research and development mission while supporting national initiatives in education reform in the States; and*

*Whereas during his leadership of NASA's Education Office, Congress passed legislation enabling the National Space Grant College and Fellowship Program (Space Grant) that NASA has managed for the past 19 years mostly under his leadership, and we recognize that Frank was largely responsible for guiding the Space Grant Program in its formative years, nurturing and encouraging it to achieve the national reach and effectiveness it now has with over 800 affiliates dispersed throughout every state plus the District of Colombia and Puerto Rico.*

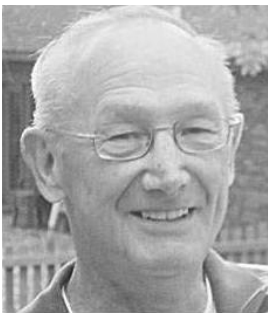
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*Therefore, it is resolved that: The National Council of Space Grant Directors is pleased and honored to award its Distinguished Service Award with our admiration and deep gratitude to Franklin C. Owens, this 28th day of February, 2007.*

Standing ovation. Mary Sandy (VA) presents a plaque to Frank Owens.

1:19 Bill Garrard (MN) – Ken DeWitt (OH) passed away since we last met. Bill reads bio on Ken and letter from Ken's family:



*Dear Space Grant Consortium Members,*

*We would like to express our sincere gratitude for the condolences and kind words of sympathy regarding Ken's passing. The outpouring of notes and the phone calls to Ken meant a lot to us. We were very touched by the many cards and emails we received that relayed a special memory of Ken. We know that he truly enjoyed the friendships and experiences that he had with the National Space Grant Community. It is readily apparent that the relationships that he had with all of you were special.*

*Space Grant matters kept Ken going during his chemotherapy treatments last summer. They gave him a reason to get back on his feet and go to the office and keep in touch with Laura Stacko to keep abreast of what was going on. He truly believed in the work you are all doing. The National Meetings were always a highlight for him as he not only enjoyed the technical discussions but also the time spent with all of you. He was extremely disappointed that he could not be at the meeting in New York City last October. He was really looking forward to attending and seeing all of you. Unfortunately, his health started to decline, and he had to cancel the trip.*

*Thank you once again for all of your wishes, notes, floral tributes and most especially your fond memories and prayers. The relationships that Ken held with the Space Grant Consortium community were very special, and meant a lot to him, and to us.*

*Sincerely,*

*Barbara De Witt*

*John, David, Matthew De Witt and Jennifer Hoelzer (De Witt)*

Paul Lam conducted a small tribute to Ken and a moment of silence.

1:23 Introductions...

Bill Garrard (MN) - New OH director, Paul Lam

Jaydeep Mukherjee (FL) – Patricia Szczerba, Program Assistant

Mike Wiskerchen (CA) – new coordinator Tehseen Lazzouni

Majid Jaraiedi (WV) – Phil Mason

Jack Higginbotham (OR) – Marti Hofenbredl Explorer School and William Schoenfeld Affiliate leader

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Barrett Caldwell (IN) – Malinda Roberts education and assessment graduate  
Chris Fritsen (NV) – Eric Wong (associate director)  
Chris Koehler (CO) – Bob Knecht affiliate director  
Andy Arena (OK) – Madeline Baugher and Mark Micozzi

**SECRETARY AND TREASURER'S REPORTS**

1:29 Peter Sukanek (MS) on Treasurer's report

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**National Council of Space Grant Directors**

**Executive Committee**

Bill Garard, Chair, Minnesota  
John Gregory, Past Chair, Alabama  
Chris Koehler, Secretary Colorado  
Peter Sukanek, Treasurer, Mississippi

Erian Arzamas, Georgia  
Chris Brown, North Carolina  
Bazett Caldwell, Indiana  
Janice DeCosmo, Washington  
Jack Higginbotham, Oregon

**Treasurer's Report  
February 2007**

**CHECKING ACCOUNT**

PREVIOUS BALANCE (as of 1 October 2006):	\$ 7,448.65
EXPENSES (Gifts, MTSGC):	\$ 89.08
 CURRENT BALANCE (as of 1 February 2007):	 \$ 7,359.57

**ON DEPOSIT WITH NSGF**

	ACTIVITY	PREVIOUS BALANCE <small>(as of 31 Aug 06)</small>	CURRENT AMOUNT <small>(as of 31 Dec 06)</small>
Endowment		\$4,862.21	
Income	Interest/Gifts		\$298.58
Total Endowment			\$5,160.79
Expendable		\$13,044.48	
Income	Interest/Gifts		\$211.87
Expense			0
Total Expendable			\$13,256.35
Total		\$17,906.69	\$18,417.14

TOTAL

\$25,776.71

Respectfully Submitted,

\_\_\_\_\_  
Peter C. Sukanek  
Treasurer

1:33 Chris Koehler (CO), secretary presented minutes from New York meeting.  
Minutes for meeting approved

1:34 Dick Henry on new horizons. Flying past Jupiter today.

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**PRESENTATION - Kamara Brown, President, NASA Academy Alumni Association**

1:37 Kamara Brown Inspiring Today's Young Space Professionals:  
President for NASA Academy Alumni Association (NAAA). Share concepts on how to motivate and retain young space enthusiasts. Go where they Mingle – get to know the organizations and events that students like (SEDS), Yuri's Night). Be proactive – teach or move like your hair is on fire. Host network events, offer real scholarships and bring back full time opportunities for space leaders in exchange for years of service. Alternative Cost-Effective PR – Blogs, podcasts, YouTube, MySpace, and get the media involved and build partnerships. Other methods – get former fellowships and internship participations involved. Make it glamorous by inviting big names to events. Find out what young space professionals are passionate about. Establish real collaborations. Follow up with past fellowships participants. Foster environments to inspire highly creative space professionals.

**OPERATIONAL ISSUES (Switched with item above) - James Stofan, Deputy Chief Education Officer for Education Programs**

1:54 James Stofan...President has signed 2007 budget. Next week we should know more information. Get proposals in and turn them around as fast as we can. Mike Griffin is on the Hill today to give testimony for 2008 budget. NASA Space Grant should be funded at 2007 level. NASA mission, to pioneer the future in space exploration, scientific... Showed the higher education pyramid chart. New org chart that is very streamlined. All NASA HQ education folks will have four priorities. Budget, finance, ??? Space Grant and EPSCOR will be kept at HQ because of the nature of the program and tracking it will provide. Also they will stay in the loop to make sure everyone is in the loop. Joyce will answer to Mike Griffin for every NASA dollar spent on education. NASA did not get more money for the ACI (American Competitive Initiative). Education can now shut down programs that fall outside the framework. She must keep the balance. Inspire, Engage, Educate, Employ...the next generation of explorers. UAO's 55 civil servants for 2007, on average 5 per center.

2:15 Directors and Coordinators Discussion

First topic – US citizenship for not only students but faculty too.

- The program has grown and now the intent is on our original goals, grow the US (Katie P)
- Who do you think is going train the next generation of kids (Majid)
- There has been a language change since (John W)
- Policy waiver possible? (Mary S.)
- How big a deal is this? (Diane)
- Loud outburst

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- We need to layout the uncertainties for Diane (Lisa B)
- Second Topic – Number of meetings per year
- Many thought it was unwise to change the meeting. More western states seemed to be in favor of less meetings than eastern states.

**Elections**

2:33 Elections

- Everyone who is not casting their vote, please leave the room.
- Nominations from the floor

Secretary:

Add Gerard Morrell

ExComm:

Barrett Caldwell, Peter Schultz, Jeff Hoffman, Jean Teasdale

Nominating Committee:

Remove Brent Bowen (NE)

Add: Chris Fritsen (NV)

Add: Philippe Geubelle (IL)

Election Results\* (Brent Bowen, Nominating Committee Chair)

Council Vice Chair: Chris Koehler

Council Treasurer: Peter Sukanek

Council Secretary: Gerardo Morrel

Executive Committee: Barrett Caldwell, Peter Schultz, Jeff Hoffman

Nominating Committee: Bill Byrd, Phillippe Guebelle

\*terms begin July 1, 2007

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*Friday, March 02, 2007*

**ANNOUNCEMENTS AND INTRODUCTIONS**

8:37 Bill Garrard (MN) started the meeting with further introductions  
Mary Sandy (VA) - Barbara Mann  
Eileen Yingst(WS) - Althea Patterson (Student)  
Lisa Brown (PA) - Leah Bug Townsend

**NASA HEADQUARTERS UPDATE: Diane DeTroye, Manager, Space Grant and EPSCoR Programs, NASA Headquarters**

8:40 Diane Detroye introductions:

Ming-Ying Wei (SMD), Theresa Schroeder (ESMD), Linda Rogers (UAO JPL), Dorene Jackson (HQ), Susan Stewart (HQ), Katie Pruzan (HQ), Warfield Teague (HQ), JM Wersinger (HQ), Dave Atkinson (ID)

Not all of you didn't get interim budget call. Looks longer but is actually been simplified and focused. Should be easier. Pay attention to linkages and objectives, continue to working with Explorer Schools and working with minority serving institutions. You don't need to restrict yourself to your state boundary. Clarification on pre college. Provide or highlight a success that may not be captured in CMIS. When are we going to get the money? I don't know. They are still identifying the number. March 30, is the date to plan on. Put place holders in for budget. We won't be the long pole in getting the funding. We will work like the dickens to get them out.

Joint NSF/NASA Research and Education Opportunities Conference. Sorry for the late notice on this. Paul Hardersen (ND) was the only Director that attended. All 10 positions were filled. Many opportunities are out there. The website for these presented at the workshop are at. <http://gemnetwork.gem.org> a MOU was signed between NASA and NSF to help find linkages with NSF opportunities.

Two-page summaries – thanks for the tremendous support. Katie has the book. Joyce wants something in her hand to explain what each state is doing at high level meetings. She asked us to put a template. We will work with her to come up with the things she wants on the template. She is very interested to talking Space Grant in the administrators' office. We would like a copy of it. Yes you can still add to it.

Student Satellite Initiatives Survey – Bill Hiscock (MT) did this initial survey. It is out of date. We are going to redo this survey. JM and Katie working on this.

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STS-118 Tiger Team – Educator astronaut. Barbara Morgan. Heavy robotic mission. NASA is trying to get to get the word out about this educator. Mike Green was the co chair but has moved. Ed Prithcare? (JSC) and Diane DeTroye are co-chairs. They want to have Higher Education at the table. I will keep you posted on the outcomes of this.

More than half of you are now eligible for EPSCOR.

Please make sure I am aware of you success stories. We want to try to get Space Grant exposure.

20<sup>th</sup> year evaluation focus group.

- Different than 15 year focus group in that they were brought in early. First meeting yesterday. Bill Hiscock (MT), Jean Teasdale (ID), Jack Higginbotham (OR), Wally Fowler (TX), Mary Sandy (VA), Terry Shehata (ME), Fathi Finaish (MO), Bill Garrard (MN). Just to be clear...This is not an advisory group. This is a focus group where we are getting your opinions.

Diversity working group.

How do we improve the diversity in the national program? We had a great meeting yesterday. These folks told us what they did that was successful and what was not. How do we elevate and share ideas across the network. GA, NH, HI, MI, NY, NC, OH, NV, IN, MN If you are interested, you can join. If you have an affiliate interested, please encourage to join. We want to get this information out. Have you looked at getting money from MEP programs from NASA? We are not looking to get from this group. We would get laughed out of the room. Can we get them to have a joint meeting? Not a clear group of folks to meet with. Do they have an exec committee we could meet with, equivalent of Bill Garrard?

Questions. Will budget timeline shift? Due March 30, 2007? I know nothing more than Jim told you. Even if it doesn't come out until March 15, 2007 will it still be due on March 30. Yes but the earliest in, earliest out with priority to those with grants expiring.

Any idea when you will be able to give update on direct support to non-us citizen?



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**FALL 2007 DIRECTORS' MEETING IN NEW MEXICO - Pat Hynes, Director, New Mexico Space Grant Consortium**

9:30 Pat Hynes gave a New Mexico Meeting overview for October 28-31, 2007. Shopping blah, blah, blah....Pat riding bull video. Seriously, check out the website at <http://spacegrant.nmsu.edu/sgdirectors/index.htm>

**9:50 - 9:55 AM UPDATE ON SUMMER WORKSHOPS - Chris Koehler, Director, Colorado Space Grant Consortium**

No workshop this summer but future workshops will be held if any interest.

**BALLOONING - Shermane Austin, Medgar Evers College**

10:20 Attended Colorado workshop. 4 hour drive to launch site. 25 launches in past 2 years and 13 ozonesondes. Student payloads. Gone to other launches. Great Plains Super Launch in 2005. We now have a launch base in Paradox, NY on 400 acres of private property. Also launch in northern Vermont and partner with Vermont Space Grant. Integrate high school students in launches with ozonesondes. BalloonSat are recovered but Ozonesondes are launched in same spot and get the data back real-time. About 500 bucks a pop. Don't usually recover the ozonesondes but are starting to. Working to integrate into the curriculum. Many additional partnerships and workshops.

**SCIENCE MISSION DIRECTORATE EDUCATION - Ming-Ying Wei, SMD Education and Public Outreach Lead, NASA Headquarters**

10:38 Very happy to be here to talk to you. Think its been 3 years since we have been here. Last day for Mary Cleave. Under her and her leadership, we have these four areas. Org chart here. 1<sup>st</sup> NRC decadal survey for Earth Science released. Working to find medium to small launch vehicles. New science plan is be finished. Mars Scout selections. MAVEN and The Great Escape. Discovery missions. SMD Recent Significant Accomplishments. Current launch profiles discussed. SMD AO's and CANs discussed. SMD Division Education and Public Outreach Support Groups CAN will be released in early 2007. SMD ROSES. Receives over 4,000 research proposals each year. About 1,000 are selected for new awards each year. \$175 M available each year. For FY07 budget \$5.25B includes 28% reduction. SMD Education and PO. EPO Programmatic highlights -- NASA Earth and Space Science Fellowship Program SMD/EPO Program element e.6 in roses 2006. Student collaboration program definition team – open call through dear colleague letter. K-12 and informal is .25 and .5% and if you do something significant to mission Student Dust Collector 1 to 2% is OK. Received 44 letters of interest. Have been selected but Mary needs to sign. How science and engineering come together and hands-on.

**Presentation - Joyce Winterton, Assistant Administrator for Education, NASA HQ**

11:02 Joyce with Implementing a new communications approach for NASA.

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What does public think about NASA?

93% know of NASA

86% doing good

83% Country is better off with NASA

75% Personally better because NASA

42 % can't name anything other than space (NASA does).

6% understand NASA extremely well. Not good and Space Grant is poised to help that. Educators who said NASA does a good job communicating its activities = 11%. Teachers and educators have a positive association about NASA but lack specific understanding knowledge.

Most cannot name any specific NASA spin-off technologies.

Serving internal and external customers.

What are new opportunities to implement?

Participate in Shuttle and Mission launches: STS-117, 118 will be different. What can you do about STS 118? End of June and our office can help. Let us know your ideas.

Summarize the major accomplishments of Space Grants. USA Today way or approach to communication of your programs and our programs. Working with students to ask how to reach them. Google etc.

We need to know what people's perceptions are because that is their reality. Which is where they place or determine its value. Trophy story here.

**EXPLORATION SYSTEMS MISSION DIRECTORATE EDUCATION - Jerry Hartman, Program Manager, ESMD Education, NASA Headquarters**

11:31 What we are trying to do. Lunar architecture. And mars too. Orion and Ares. Beginning process of ground, mission, systems. ESMD was born out of biology and physical research. We have an advanced capabilities division for human research. Technology development. Everything we do in ESMD support the pyramid framework. Education priorities grow engineers grow engineers and grow scientists...

ESMD K-12 Education Activities are many; engineering design challenges, human exploration, project fundamentals of lunar robotics, advanced placement extensions, space radiation, fit explorer, lunar reconnaissance orbiter (LRO)

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Informal education - field trip to the moon --- working with Marshall program and now developing an after school program,  
- girl scouts exploring space  
- working with JPL  
- Lunar librarian workshops – often overlooked and with Goddard  
- Lunarnautics – after school program in development with Marshall

Higher education –  
Constellation university institutes  
No new Graduate Student Research program (?)  
No New Post doctoral  
Spaceword bound from Ames and taking students unique and remote environments.  
Bi generation research  
Space Grant internships – Teresa will talk about these  
Space Grant faculty fellows

Jerry Hartman 202-358-1451 [jerry.g.hartman@nasa.gov](mailto:jerry.g.hartman@nasa.gov) Please call him. Or contact him.

Budget has been reduced by 50% for next year.

**SPECIAL PRESENTATION ON ARES V - Phil Sumrall, Manager of Advanced Planning, Exploration Launch Projects, Office, NASA Marshall Space Flight Center**

**EXPLORATION SYSTEMS MISSION DIRECTORATE PROJECTS - Lesley Garner, ESMD Faculty Project Manager, Kennedy Space Center & Theresa Schroeder, ESMD Space Grant Project Manager, Kennedy Space Center**

1:40 Need to get slides. I missed first 10 minutes due to discussion. PBMA – one stop shopping for all ESMD info for Space Grant consortia and SG Reporting. Reports are now just semi-annual and working with HQ to avoid duplication. ESMD date to KSC, not CMIS. Got have the metrics to evaluate the program. Student data needed, interns, competition, senior design. Get this initial information from student or who ever is getting funds. Then we will follow up with the student. This is our metrics.

Students' applications are closed for 2007. Other dates on chart. If you need to place students, please let us know so we can hook you up with states that have too many applied.

Solicitation will be online for 2007. Revamp due to funding cuts. 3 internships and senior design but \$1K higher.

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**NATIONAL SPACE GRANT FOUNDATION UPDATE - Keith Hudson, President, National Space Grant Foundation**

2:04 Foundation report...

Special presentation by Mike Wiskerchen (CA) to Dick Henry (MD). From The John Hopkins University. Treasurers report by Pat Hynes (NM). Accounts moved to new bank for increased interest earnings. Simplified Banking process. Streamlined account system. And account statements. If you didn't receive your report for 2006, contact Mark Fischer. Balances...Mark is in the process of producing complete transaction history for each state. No plans to update the brochure.

Activities update: Education Associates program, Undergraduate Student Research Program (27 states participated in Awareness campaign), Pathevo Career Exploration Software, Distinguished service award, Space Grant service program, NASA 50<sup>th</sup> Year Publication

Proposal efforts: Regional Alliance for persons with disabilities in science mathematics and engineering and technology education RAD – NSF, Education associate Program EAP = NASA/AMES, NASA faculty fellowships Program (NFP) – various NASA centers, Aerospace Educational Services Program (AESP) – NASA

**NASA FIFTIETH ANNIVERSARY ADVERTISEMENT - Mark Fischer, National Space Grant Foundation**

How does the NSGF decide what calls to respond to and who to partner with?

- Does this fit with the National program goals
- How would we fit inside of this and within our network
- Foundation can't commit you the director to something.
- As we are approached for future opportunities, we will send out a message to give directors a heads up.

Only a director can be foundation PI for a foundation program.

Services program update: Purpose – to serve you and be of value

Jaydeep Mukherjee is PI and Mark is implementer. Voluntary participation and customer focused.

[director@xx.spacegrant.org](mailto:director@xx.spacegrant.org) works for all current directors

National website – <http://national.spacegrant.org>

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Please send your news items to this website

Credit card services

Longitudinal tracking. 13 states involved as of February 2007. Web based system. Mimics SG website and data can be ported. See more on slides on this. \$5350 for first year and \$4,000 per year thereafter

50<sup>th</sup> anniversary ad

**NATIVE AMERICAN RECRUITMENT - Ed Galindo, Director, Natural Resources Tribal Cooperative**

3:48 Partnerships and living the dream. Broadening participation. Native American Science Association (NASA). Promote STEM because it is good and because you can get funds. Partnership process. – create an environment of partnership success. Define success. Assess needs of all partners (listening) Big picture thinking. Develop shared goals and objectives. Develop and evaluation with timeline (this is what it becomes real). Development a management system, who does what. When you build partners, the worst thing you can do is shake hands and then ask for money. Develop human and financing in kind resources. Monitor and evaluate each three months. Partnership Idaho model. How do you get diversity you have to want it. Then get them included. Ask questions of them. Engagement, hands-on doing stuff and meeting people. Letting students know you care about them. These partnerships that work good for diversity work well for all students. Living the dream.

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*Saturday, March 03, 2007*

**ANNOUNCEMENTS AND INTRODUCTIONS**

8:30 No real announcements

**SPACE GRANT INTERNET TELESCOPE - Paul Hardersen, Interim Director, North Dakota Space Grant Consortium**

8:33 New to SG family and has new ideas. This is the first one. Establish a national network of internet astronomical observatories for non-astro and under-served college and universities. ND own inter telescope is over used. Using SG network would help with own research. All you need to control web browser for inter controllable telescope for active viewing. Robotic is automated. Many inter networks but they come and go. Many run out of money or are limited. And different capabilities. Advantages. 1. network will provide more observing time. 2. Unique research projects can be conducted. 3. Can server rural and minority populations. Only need a decent internet connections. 4. getting students actively involved in research projects and careers. Critical issues. You need someone who knows what they are doing. You need certain instrumentation. Ideally we would like widely separated observations. Operations. Need to easy to use. OR, ND, and SD are currently involved. S/W is about 1500. Hope to have the program further by May 1. <http://observatory.space.edu> You will need one committed person to do this at each institution. To join. You need interest and observatory that can be operated remotely robotic or online or willing to also need to commit \$5K per year to do this. Will have a website to coordinate the website. Much interest in doing this.

**ACADEMY OF AEROSPACE QUALITY - Alice Smith, Auburn University**

8:59 Idea came from NASA to develop virtual resource for academics to build high quality spacecraft. Provide resource to academics. Target audience students to senior faculty. Payloads are defined as anything that is shot up into space. <http://aaq.auburn.edu> is the website. No charge for this. Many very applicable topics for quality items for spacecraft design and build. Looking at each topic shows many sub links including quizzes. Space grant could help in this area. SG embraces much of our AAQ intended audience. You can help with our topics. We need your help. Encourage folks to use it. Give us curriculum feedback. First AAQ breakout forum March 29 near KSC. Travel stipends are available.

**UPDATE ON THE NASA ACADEMY PROGRAM/SELECTION OF STUDENTS**

**Doug O'Handley, Director, NASA Academy at Ames**

9:14 175 students at Goddard, I was pulled away. Please see slides.

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**FUTURE SPACE HABITATS - Peter Schultz, Director, Rhode Island Space Grant Consortium**

9:43 210 students involved. 2 year masters program and 4 year undergraduate program. Using this program to talk about design. Great pictures of design concepts. Thought processes can work on other career paths. Work in studio to make models of all sizes. Built the lunar modal habitat for in an afternoon. Looking at new ideas for next lunar lander. Work from inside out. Been doing this for 14 years and now 150 students have been involved and Johnson Space Center has been actively involved. Great video at end.

**REGIONAL BREAKOUTS**

**Great Midwest – Potomac Room**

**Mid Atlantic – Ballroom**

**New England – Williamsburg Room**

**Southeast – Ballroom**

**Western – Ballroom**

11:50 Meeting adjourned.